|              |       | Restaurable   Restaurable |          |                 |               |          |                 |   |               |           |     |          | 1    | <b>/bt</b>          | lica              | atio         | n/           | Coi      | ntro         | ol N        | No.           |                 |               | Ap<br>Re | pli<br>exe | car<br>ami | nt(s<br>ina         | s)/F              | Pate<br>n | nt und    | der      |         |           |  |
|--------------|-------|---|----------|-----------------|---------------|----------|-----------------|---|---------------|-----------|-----|----------|------|---------------------|-------------------|--------------|--------------|----------|--------------|-------------|---------------|-----------------|---------------|----------|------------|------------|---------------------|-------------------|-----------|-----------|----------|---------|-----------|--|
|              |       |   |          |                 |               |          |                 |   |               |           |     |          | -    | 10/684,117          |                   |              |              |          |              |             |               |                 |               | N        | ESE        | ЗІТ        | Т.                  | JE                | FFF       | REY I     | Ε.       |         |           |  |
|              |       |   |          |                 |               |          |                 |   |               |           |     |          |      | Examiner            |                   |              |              |          |              |             |               |                 |               | Ar       | t U        | nit        | - 1                 |                   | Ť         |           |          |         |           |  |
|              |       |   |          |                 |               |          |                 |   |               |           |     |          |      |                     |                   |              |              |          |              |             |               |                 |               |          |            |            |                     |                   |           |           |          |         |           |  |
|              |       |   |          |                 |               |          |                 |   |               |           |     |          |      |                     | Camie S. Thompson |              |              |          |              |             |               |                 |               | 1774     |            |            |                     |                   |           |           |          |         |           |  |
|              |       |   |          | _               |               | _        |                 |   |               |           |     |          |      |                     |                   |              |              | 1        | _            |             |               |                 |               |          |            |            |                     |                   |           |           |          | ¬       |           |  |
|              |       | √   | Rejected |                 |               |          |                 | - |               |           |     |          |      | gh numer<br>ncelled |                   |              |              | N        | N            | Non-Elected |               |                 |               | A        | Appeal     |            |                     |                   |           |           |          |         |           |  |
|              |       | =   |          | llov            | Ne            | d        |                 |   | +             |           |     | R        | es   | ric                 | ted               |              |              |          | ī            | lr          | nte           | rfer            | en            | се       |            | 0          |                     | Obj               | jec       | tec       | <u>.</u> |         |           |  |
|              |       | Ч   |          |                 |               |          |                 |   | لـــا         |           |     |          |      |                     |                   |              |              | J        | L            |             |               |                 |               |          |            | Ш          |                     |                   |           |           |          | ╛       |           |  |
| CI           | aim 、 |   | _        |                 |               | )ate     |                 |   |               | $\neg$    | [   | С        | lain | ı ·                 |                   |              |              | Dat      | e            |             |               | $\overline{}$   | [             | Cli      | aim        | Т          | _                   |                   | Da        | ate       |          |         | $\neg$    |  |
|              |       |   | 2        |                 | Ī             | Ī        |                 |   |               |           |     |          | T    | $\neg$              | 14                | Т            | Τ            | T        | Ť            |             |               | П               |               |          |            | $\Box$     | Т                   | Т                 | T         | T         | $\top$   | T       |           |  |
| Final        | ië/   | 1   | \        |                 |               |          |                 |   |               |           |     | a<br>a   | .    | ig l                | 4                 |              |              |          |              |             |               |                 |               | Final    | Original   |            | -                   | Ì                 |           | ı         | İ        |         |           |  |
| ΙŒ           | ō     | 1   |          |                 |               |          |                 |   |               |           |     | 证        | 1    | 5 (                 | 1/3               |              |              |          |              |             |               |                 |               | ΙĹ       | ō          |            |                     |                   |           |           |          |         |           |  |
| -            |       | <b>├</b>  |          | $\dashv$        | $\dashv$      | $\dashv$ | -+              |   | $\vdash$      | $\dashv$  |     |          |      |                     | স                 | +            | +            | ╁        | +-           |             |               | Н               | :::: <b>}</b> |          | 101        | Н          | $\dashv$            | +                 | +         | +         | +        | +       | H         |  |
|              | 2     | 1   | _        | $\vdash$        | $\dashv$      | $\dashv$ | $\vdash$        |   | Н             | $\dashv$  |     |          |      | 2                   | il                | 1            | +            | T        | T            |             |               | Н               |               | _        | 102        |            | $\dashv$            | $\dashv$          | $\top$    | $\dagger$ | +        | +       | $\square$ |  |
|              | 3     |   |          |                 |               |          |                 | _ |               |           |     |          | 5    | 3                   | $\perp$           |              | I            |          |              |             |               |                 |               |          | 103        |            | $\Box$              |                   |           | $\perp$   | $\top$   |         |           |  |
|              | 4     | Щ   |          | $\Box$          | $\downarrow$  | _        | $\vdash$        |   | $\vdash$      | $\square$ |     |          |      | 4                   | #                 |              | 1            | _        | <u> </u>     |             | $oxed{oxed}$  | $\sqcup$        |               |          | 104        | $\vdash$   | $\dashv$            | +                 | +         | +         | +        | - -     | $\sqcup$  |  |
| -            |       | H   |          | $\vdash \vdash$ | -             | -        | $\vdash$        |   | $\vdash$      | $\dashv$  |     |          |      |                     | ╫                 | +            | +            | +-       | $\vdash$     |             | $\vdash$      | $\vdash \vdash$ | ŀ             |          | 105<br>106 | $\vdash$   | +                   | +                 | +         | +         | +        | +       | H         |  |
| $\vdash$     | 7     |   | _        | $\dashv$        | $\dashv$      | $\dashv$ | $\dashv$        | _ | $\vdash$      |           |     |          |      | 7                   | #                 | +            | ╁╌           | ╁╌       | -            |             | -             | Н               |               |          | 107        | Н          | +                   | +                 | +         | +         | +        | +       | H         |  |
|              | 8     | Н   |          |                 | $\exists$     |          |                 |   |               |           |     |          | 7 :  | 8                   | H                 | $\top$       | $\top$       | 1        | T            |             |               |                 |               |          | 108        |            |                     |                   |           |           |          |         |           |  |
|              | 9     |   |          |                 | $\Box$        |          | $\Box$          |   |               |           |     |          |      | 9                   | П                 | $\perp$      | $\perp$      |          |              |             |               |                 |               |          | 109        |            | $\Box$              | $\perp$           | $\perp$   | $\perp$   | $\perp$  | $\perp$ |           |  |
|              | 10    | Н   | _        | Н               | $\dashv$      | _        | _               |   | _             |           |     |          |      | 0                   | H                 | -            |              | ļ        | <u> </u>     | _           | <u> </u>      | $\vdash$        |               |          | 110        | $\vdash$   | $\dashv$            | +                 | 4         | -         | 4        | 4       | Н         |  |
| <del> </del> |       | Н   |          | $\vdash$        | $\dashv$      | $\dashv$ | $\vdash$        |   | -             |           |     |          |      | 52                  | H                 | +            | ╁            | +-       | ╁            | _           | $\vdash$      | Н               |               |          | 111<br>112 | +          | -                   | +                 | +         | +         | +        | +       | Н         |  |
|              | 13    | $\overline{}$   |          | П               | 1             | 一        | $\Box$          |   |               |           |     |          |      | 33                  | t                 | $\top$       | 十            | T        | 1            |             | Т             | П               |               |          | 113        | Н          | $\dashv$            | $\top$            | $\top$    | $\dagger$ | $\top$   | $\top$  | H         |  |
|              | 14    | $\prod$   |          |                 |               |          |                 |   |               |           |     |          |      | 34                  |                   |              | $\perp$      |          | $\Box$       |             |               |                 |               |          | 114        |            |                     |                   | Ţ         | $\perp$   | $\prod$  |         |           |  |
|              | 15    | -   |          | $\sqcup$        | $\dashv$      | $\dashv$ | $\vdash$        |   | $\vdash$      | _         |     |          |      | 55                  | <u>!</u>          | +            | +            | ╀        |              |             | _             | Н               |               |          | 115<br>116 |            | -                   | +                 | -         | +         | +        | -       | <u> </u>  |  |
|              | 17    | ╫╴  | _        | $\vdash$        | -             | -        | $\dashv$        | _ | ╁╌            | _         |     |          |      | 37 S                | 7                 | ╁            | ╁            | ╁┈       | <del> </del> |             |               | Н               |               |          | 117        |            | $\dashv$            | +                 | +         | +         | +        | +       | H         |  |
| <u> </u>     | 18    |   |          |                 |               |          | Ħ               |   | T             |           |     |          |      | 88                  | 11                | $\top$       | +            | T        | $\vdash$     |             |               | П               |               |          | 118        |            | $\dashv$            | $\top$            | _         | 1         | 7        | +       | П         |  |
|              | 19    |   |          |                 |               |          |                 |   |               |           |     |          |      | 69                  | $\mathbf{I}$      | $\perp$      |              |          |              |             |               |                 |               |          | 119        |            |                     | $\perp$           | $\perp$   |           | $\Box$   |         |           |  |
| <u> </u>     |       | -   |          | $\sqcup$        | _             |          | $\dashv$        |   | -             | _         |     |          |      | 70                  | ₩                 | +            | +            | +        | ┝            | _           | _             | Н               |               |          | 120<br>121 |            |                     |                   | _         | _         | _        |         |           |  |
| <u> </u>     |       | -   |          | $\vdash$        | $\dashv$      |          | $\dashv$        |   | ┼             | _         |     |          |      | 72                  | ₩                 | +-           | ╁            | ╁        | $\vdash$     |             | $\vdash$      | ${\mathbb H}$   |               |          | 122        |            | $\dashv$            | +                 | +         | +         | +        |         | $\vdash$  |  |
|              | 23    |   |          | Н               |               |          |                 | _ | <u> </u>      |           |     |          | 7    | 73                  |                   | $\top$       | $\top$       | T        |              |             |               | П               |               |          | 123        | $\top$     |                     |                   |           |           |          |         |           |  |
|              | 24    | ¥   |          | П               | $\Box$        |          | П               |   | Е             |           |     |          | 7    | 74                  | $\mathbf{I}$      | $\perp$      | I            | Г        | Г            |             |               | 口               |               |          | 124        |            |                     | Ţ                 | T         | Ţ         | Ţ        | 工       |           |  |
| -            | 25    | 7   | _        | $\vdash \vdash$ | 4             | $\dashv$ | $\vdash \vdash$ |   | $\vdash$      | $\vdash$  |     |          |      | 75<br>76            | #                 | +            | +            | ╀        | -            | <u> </u>    |               | $\vdash$        |               |          | 125        |            | $\dashv$            | +                 | +         | +         | +        | +       | $\vdash$  |  |
|              | 27    | +   | -        | $\vdash \vdash$ | $\dashv$      |          | $\vdash$        | _ | $\vdash$      | $\vdash$  |     |          |      | 77                  | +                 | +            | +            | +        | +            | $\vdash$    | <del> -</del> | $\vdash$        |               |          | 126<br>127 |            | $\dashv$            | $\dashv$          | +         | +         | +        | +       | H         |  |
|              | 28    | $\parallel$   |          |                 |               |          |                 |   | İ             |           |     |          | 7    | 78                  | $I^{\dagger}$     |              | Ţ            | 1        |              |             |               |                 |               |          | 128        |            |                     |                   | 丁         | 丁         | 丁        | 丁       |           |  |
|              | 29    |   |          | П               |               |          |                 |   |               |           |     |          | 7    | 79                  | П                 | $\perp$      | I            | L        |              |             |               | $\Box$          |               |          | 129        |            | $\Box$              |                   | 工         | I         | Ţ        |         |           |  |
| <u> </u>     | 30    | #   | _        | $\vdash$        | _             |          | -               |   | ├-            | _         |     | <u> </u> |      | 30                  | 1                 | -            | +            | +-       | ╀-           | <u> </u>    |               | $\vdash$        |               |          | 130        |            | $\vdash$            |                   | +         | - -       | +        |         | H         |  |
| -            |       | +   | -        | $\vdash \vdash$ | $\dashv$      | $\dashv$ | $\vdash \vdash$ |   | $\vdash$      | -         |     | -        |      | 31<br>32            | -                 | +            | +            | +        | $\vdash$     | $\vdash$    |               | H               |               |          | 131<br>132 |            | $\vdash$            | +                 | +         | +         | +        | +       | H         |  |
|              | 33    |   |          | ┢               | _             |          |                 |   | $\vdash$      |           |     |          |      | 33                  | T                 |              | $\dagger$    | T        | T            |             |               |                 |               |          | 133        |            |                     | $\exists \dagger$ | _         | +         | $\top$   | +       | П         |  |
|              | 34    |   |          | П               |               |          |                 |   |               |           |     |          | 18   | 34                  | П                 | ightharpoons |              | E        |              |             |               | П               |               |          | 134        |            |                     | $\Box$            |           | $\bot$    | $\perp$  |         |           |  |
|              | 35    | #   | <u> </u> | $\vdash \vdash$ | _             |          | $\vdash \vdash$ |   | -             |           |     | _        |      | 35                  | +                 | +            | +            | $\vdash$ | ┡            | <u> </u>    | _             | $\vdash \vdash$ |               |          | 135        |            | $\vdash$            | $\dashv$          | +         | +         | +        | +       | $\vdash$  |  |
| -            | 36    | #   | -        | ┝┤              | $\dashv$      | -        | $\vdash \vdash$ | _ | +-            | -         |     | -        |      | 36<br>37            | +                 | +            | +            | ╁        | +-           | -           | $\vdash$      | Н               |               |          | 136<br>137 |            | $\vdash$            | +                 | +         | +         | +        | +       | $\vdash$  |  |
|              | 38    | $\parallel$   |          |                 |               |          |                 |   |               |           |     |          |      | 38                  | 1                 | $\exists$    | $^{\dagger}$ | T        | ╁┈           |             |               | H               |               |          | 138        |            |                     | 士                 | $\top$    | $\dagger$ | _        | 士       |           |  |
|              | 39    | I   |          | П               |               | $\Box$   | П               |   |               |           |     |          | 1    | 39                  | $\prod$           | Ţ            | I            |          |              |             |               | $\Box$          |               |          | 139        |            | П                   | 丁                 | T         | Ţ         | Ţ        | T       |           |  |
|              | 40    | -   | ļ        | -               | _             | Щ        | $\vdash \vdash$ |   | ┡             |           |     | <u> </u> |      | 90                  | -#                | +            | +            | -        | $\vdash$     | $\vdash$    | _             | Н               |               |          | 140        |            | $\vdash \downarrow$ | +                 | +         | +         | +        | +       | H         |  |
| $\vdash$     | 41    | #   | $\vdash$ | $\vdash$        | $\dashv$      | $\vdash$ | $\vdash$        |   | ╁             | -         |     | $\vdash$ |      | 91                  | -                 | +            | +            | +        | ╁╴           | $\vdash$    | -             | $\vdash$        |               |          | 141<br>142 |            | $\vdash \vdash$     | +                 | +         | +         | +        | +       | H         |  |
|              | 43    | $\dagger \dagger$   | $\vdash$ | $\Box$          | $\dashv$      |          | H               |   | T             |           |     | $\vdash$ | 1    | 93                  | $\dashv$          | 十            | $\dagger$    | $\vdash$ | T            | -           |               | П               |               |          | 143        |            |                     | 十                 | +         | $\top$    | +        | $\top$  |           |  |
| _            | 44    | _   |          | -               | $\rightarrow$ |          | _               | _ | $\overline{}$ | _         | ::: |          |      | 94                  | _                 | _            | _            |          | _            | _           | _             | _               | ::            |          | 144        |            | _                   | $\overline{}$     | _         | _         |          |         |           |  |

99 100

49 50